

### Abstract

A Li-ion and/or Li-ion polymer battery, comprised of a plurality of battery cells, each battery cell comprised of at least one cathode section, an anode section and at least one separator layer disposed between the anode section and the at least one cathode section. A first, planar metal mesh layer is disposed within the anode section, the first metal mesh layer having a coplanar tab extending beyond the separator layer to define a negative lead. A second, planar metal mesh layer is disposed within the cathode section, the second metal mesh layer having a coplanar tab extending beyond the separator layer to form a positive lead. A plurality of reinforcing bands are wrapped around the peripheral edges of the battery cells securing the battery cells together.

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